ELSEVIER

Journal of Electroanalytical Chemistry 399 (1995) 245

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Author index

Abd El-Halim, A.M. 29
Abdel Azzem, M. 121
Albery, W.J. 13
Alonso-Vante, N. 29
Angulo, M. 135, 141
Atchison, S.N. 71

Bernard, C. 147
Berthier, F. 1
Bobrova, O.A. 179
Burford, R.P. 71

Cha, C.-S. 213

Degrand, C. 147
De Lacey, A.L. 163
Deloffre, F. 97
Diard, J.-P. 1
Dong, S. 41
Dražić, D.M. 127, 197
Driscoll, B.J. 13

Eiswirth, M. 185
Ertl, G. 185
Euler, W.B. 47

Fahmy, H.M. 121
Fernández, V.M. 163
Fotouhi, L. 229

García-Jareño, J.J. 115
Garnier, F. 61, 97
Gojković, S.LJ. 127
González, J. 223
Goto, T. 91
Gregory, A.J. 105
Guo, Y. 41

Hibbert, D.B. 71
Hirasawa, F. 239
Horowitz, G. 97

Igarashi, H. 239
Isse, A.A. 157

Jović, B.M. 197
Jović, V.D. 197

Kalia, Y.N. 13
Karyakin, A.A. 179
Karyakina, E.E. 179
Klima, J. 147
Kolyadko, E.A. 21
Koper, M.T.M. 185
Krausa, M. 7
Krischer, K. 185

Lang, P. 61
Le Penven, R. 105
Levason, W. 105
Li, Y. 79
Lu, S. 21
Lübke, M. 185

Maleki, N. 229
Matsumoto, Y. 91
Mekhalif, Z. 61
Mishra, M.K. 53
Mohamed, Z.F. 121
Molina, A. 223
Montella, C. 1
Murali Krishna, K. 53

Navarro-Laboulais, J. 115
Nessakh, B. 97
Niu, J. 41
Noftle, R.E. 105

Ohmura, H. 91
Opallo, M. 169

Pletcher, D. 105
Podlovchenko, B.I. 21
Prieto, I. 135, 141
Pronzato, L. 1

Rodríguez Mellado, J.M. 135, 141

Safavi, A. 229
Savéant, J.-M. 157
Schmitz, B.K. 47
Serna, C. 223
Severin, M.-G. 157
Sharon, M. 53
Shi, Z. 213
Shivdas, R. 235
Srivastava, A.K. 235
Srivastava, P. 97

Thomas, A.E. 207
Tributsch, H. 29
Trijueque, J. 115

Uchida, H. 239

Vicente, F. 115
Vielstich, W. 7

Walter, E. 1
Wang, E. 83
Watanabe, M. 239
Whitby, C.P. 71
Wieckowski, A. 207
Wolf, W. 185

Xu, J. 79

Yang, J. 79
Yassar, A. 97

Zečević, S.K. 127
Zhang, J. 83
Zhou, Y.-H. 213

ELSEVIER

Journal of Electroanalytical Chemistry 399 (1995) 247–250

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Subject index

Acetonitrile
Sonoelectrochemistry: transient cavitation in acetonitrile in the neighbourhood of a polarized electrode (Klima et al.) 147
Adsorption
Studies on adsorption behavior of sulfonate surfactants on a lead electrode in sulfuric acid (Shi et al.) 213
AgCl layers
Kinetics of chloride ion adsorption and the mechanism of AgCl layer formation on the (111), (100) and (110) faces of silver (Jović et al.) 197
Alcoholdehydrogenase
Electroreduction of NAD^+ to enzymatically active NADH at poly(neutral red) modified electrodes (Karyakin et al.) 179
Alkaline solutions
Oxygen reduction on iron. Part VII. Temperature dependence of oxygen reduction on passivated iron in alkaline solutions (Gojković et al.) 127
2-Aminocyclopentene-1-dithiocarboxylic acid
Investigation of reduction reaction of 2-aminocyclopentene-1-dithiocarboxylic acid and its derivatives at mercury electrodes (Fotouhi et al.) 229
Amperometric enzyme electrodes
Amperometric enzyme electrodes. Part 8. Enzyme electrodes for choline + betaine aldehyde and hypoxanthine + xanthine. A kinetic model for a one-enzyme sequential substrate system (Albery et al.) 13
Asymmetric viologens
pH-Dependent redox behaviour of asymmetric viologens (De Lacey, Fernández) 163

Bioelectrochemistry
The direct electrochemistry of cryo-hydrogel immobilized myoglobin at a glassy carbon electrode (Niu et al.) 41

Cavitation
Sonoelectrochemistry: transient cavitation in acetonitrile in the neighbourhood of a polarized electrode (Klima et al.) 147
Chemically modified electrode
The direct electrochemistry of cryo-hydrogel immobilized myoglobin at a glassy carbon electrode (Niu et al.) 41
Chemical pretreatment
Chemical pretreatment of platinum by aromatic and aliphatic thiols. Effect on polybithiophene electrodeposition and properties (Mekhalif et al.) 61
Chloride ion adsorption
Kinetics of chloride ion adsorption and the mechanism of AgCl layer formation on the (111), (100) and (110) faces of silver (Jović et al.) 197
Choline + betaine aldehyde
Amperometric enzyme electrodes. Part 8. Enzyme electrodes for choline + betaine aldehyde and hypoxanthine + xanthine. A kinetic model for a one-enzyme sequential substrate system (Albery et al.) 13
Chronoamperometry
Simple redox reactions studied below the melting point of congruently melting electrolyte: $(C_4H_9)_4NF \cdot 32H_2O$ (Opallo) 169
Chronopotentiometry
Chronopotentiometry at the dropping mercury electrode when the current is a power and/or exponential function of time: study of the second step of an EE mechanism with widely separated standard potentials (Serna et al.) 223
Conductance
Conductance behaviour of pyridoxine hydrochloride and propranolol hydrochloride in dimethylsulphoxide + water at 25°C (Srivastava, Shivdas) 235
CoOOH
Effect of lanthanide ions on the electrodeposition of cobalt and manganese oxides (Matsumoto et al.) 91
Copper
Electrodeposition of copper in quasi-two dimensions from solutions containing sodium sulfate (Atchison et al.) 71
Cryo-hydrogel membrane
The direct electrochemistry of cryo-hydrogel immobilized myoglobin at a glassy carbon electrode (Niu et al.) 41
Cyclic voltammetry
Cyclic voltammetry and differential cyclic voltabsorptometry of soluble oligothiophenes: evidence for a four-fold charged π-dimer in duodecithiophene (Nessakh et al.) 97
Simple redox reactions studied below the melting point of congruently melting electrolyte: $(C_4H_9)_4NF \cdot 32H_2O$ (Opallo) 169

Desorption
Surface diffusion limited desorption of iodine on a platinum electrode? (Thomas, Wieckowski) 207
Differential cyclic voltabsorptometry
Cyclic voltammetry and differential cyclic voltabsorptometry of soluble oligothiophenes: evidence for a four-fold charged π-dimer in duodecithiophene (Nessakh et al.) 97
Dimerization
ED mechanisms: electrodimerization of *N'*-methyl nicotinamide on mercury electrodes in aqueous solutions (Angulo et al.) 141
Compared selectivities of redox-catalyzed and direct electrochemical processes. Part 1. Reactions in which product selection involves competition between dimerization and first-order reactions (Savéant et al.) 157
Direct electrochemical processes
Compared selectivities of redox-catalyzed and direct electrochemical processes. Part 1. Reactions in which product selection involves competition between dimerization and first-order reactions (Savéant et al.) 157
Direct electron transfer
The direct electrochemistry of cryo-hydrogel immobilized myoglobin at a glassy carbon electrode (Niu et al.) 41
Dispersed forms
Specific features of hydrogen sorption by palladium dispersed forms at α-phase potentials (Podlovchenko et al.) 21

Dropping mercury electrode
Chronopotentiometry at the dropping mercury electrode when the current is a power and/or exponential function of time: study of the second step of an EE mechanism with widely separated standard potentials (Serna et al.) 223

EE mechanism
Chronopotentiometry at the dropping mercury electrode when the current is a power and/or exponential function of time: study of the second step of an EE mechanism with widely separated standard potentials (Serna et al.) 223
Electrocatalysis
Electrocatalytic reduction of some imino compounds on a glassy carbon electrode electrochemically modified with a new copper–salen complex (Abdel Azzem et al.) 121
Electrochemical impedance
Impedance analysis of graphite + polyethylene and graphite + epoxy composite electrodes (Navarro-Laboulais et al.) 115
Electrochemical pretreatment
STM investigation of HOPG superperiodic features caused by electrochemical pretreatment (Zhang, Wang) 83
Electrode kinetics
Investigation of the reduction mechanism of the NAD^+ model compound N'-methyl nicotinamide on mercury electrodes in strongly acidic solutions (Prieto et al.) 135
ED mechanisms: electrodimerization of N'-methyl nicotinamide on mercury electrodes in aqueous solutions (Angulo et al.) 141
Electrodeposition
Chemical pretreatment of platinum by aromatic and aliphatic thiols. Effect on polybithiophene electrodeposition and properties (Mekhalif et al.) 61
Electrodeposition of copper in quasi-two dimensions from solutions containing sodium sulfate (Atchison et al.) 71
Effect of lanthanide ions on the electrodeposition of cobalt and manganese oxides (Matsumoto et al.) 91
Electropolymerisation
Electroreduction of NAD^+ to enzymatically active NADH at poly(neutral red) modified electrodes (Karyakin et al.) 179
Electroreduction
Electrocatalytic reduction of some imino compounds on a glassy carbon electrode electrochemically modified with a new copper–salen complex (Abdel Azzem et al.) 121

First-order reactions
Compared selectivities of redox-catalyzed and direct electrochemical processes. Part 1. Reactions in which product selection involves competition between dimerization and first-order reactions (Savéant et al.) 157
Fuel cell
Experimental analysis of water behavior in Nafion® electrolyte under fuel cell operation (Watanabe et al.) 239
Fuel cells
Effect of lanthanide ions on the electrodeposition of cobalt and manganese oxides (Matsumoto et al.) 91

Galvanostatic step
Potential oscillations during methanol oxidation at Pt-electrodes. Part 1: experimental conditions (Krausa, Vielstich) 7
Graphite + polymer composite electrodes
Impedance analysis of graphite + polyethylene and graphite + epoxy composite electrodes (Navarro-Laboulais et al.) 115

pH effects
pH-Dependent redox behaviour of asymmetric viologens (De Lacey, Fernández) 163

Hydrogen oxidation
Experimental and theoretical description of potentiostatic current oscillations during H_2 oxidation (Wolf et al.) 185
Hydrogen sorption
Specific features of hydrogen sorption by palladium dispersed forms at α-phase potentials (Podlovchenko et al.) 21
Hypoxanthine + xanthine
Amperometric enzyme electrodes. Part 8. Enzyme electrodes for choline + betaine aldehyde and hypoxanthine + xanthine. A kinetic model for a one-enzyme sequential substrate system (Albery et al.) 13

Identifiability
Choice of experimental method induced by structural properties of mechanisms (Berthier et al.) 1
Iodine adsorption
Surface diffusion limited desorption of iodine on a platinum electrode? (Thomas, Wieckowski) 207
Iodine mobility
Surface diffusion limited desorption of iodine on a platinum electrode? (Thomas, Wieckowski) 207
Iron
Oxygen reduction on iron. Part VII. Temperature dependence of oxygen reduction on passivated iron in alkaline solutions (Gojković et al.) 127
Iron sulphur centres
Iron/sulphur centre mediated photoinduced charge transfer at (100) oriented pyrite surfaces (Abd El-Halim et al.) 29

Kinetic model
Amperometric enzyme electrodes. Part 8. Enzyme electrodes for choline + betaine aldehyde and hypoxanthine + xanthine. A kinetic model for a one-enzyme sequential substrate system (Albery et al.) 13

Lanthanide ions
Effect of lanthanide ions on the electrodeposition of cobalt and manganese oxides (Matsumoto et al.) 91
Laser–electrochemical doping
Study of laser–electrochemical doping of poly(*N*-vinylcarbazole) (Li et al.) 79
Lead electrode
Studies on adsorption behavior of sulfonate surfactants on a lead electrode in sulfuric acid (Shi et al.) 213
Lead oxides
Photoelectrochemical study of potentiodynamically anodized H_2-reduced $PbTiO_3$ + PbO mixed-oxide electrode in 0.1 M NaOH + 0.1 M Na_2SO_4 (Murali Krishna et al.) 53

Mercury electrodes
Investigation of reduction reaction of 2-aminocyclopentene-1-dithiocarboxylic acid and its derivatives at mercury electrodes (Fotouhi et al.) 229
Metal adatoms
Specific features of hydrogen sorption by palladium dispersed forms at α-phase potentials (Podlovchenko et al.) 21
Methanol oxidation
Potential oscillations during methanol oxidation at Pt-electrodes. Part 1: experimental conditions (Krausa, Vielstich) 7
N'-Methyl nicotinamide
Investigation of the reduction mechanism of the NAD^+ model compound N'-methyl nicotinamide on mercury electrodes in strongly acidic solutions (Prieto et al.) 135
Mixed-oxide electrode
Photoelectrochemical study of potentiodynamically anodized H_2-reduced $PbTiO_3$ + PbO mixed-oxide electrode in 0.1 M NaOH + 0.1 M Na_2SO_4 (Murali Krishna et al.) 53

MnO_2
Effect of lanthanide ions on the electrodeposition of cobalt and manganese oxides (Matsumoto et al.) 91
Modified carbon electrodes
Electrocatalytic reduction of some imino compounds on a glassy carbon electrode electrochemically modified with a new copper–salen complex (Abdel Azzem et al.) 121
Myoglobin
The direct electrochemistry of cryo-hydrogel immobilized myoglobin at a glassy carbon electrode (Niu et al.) 41

NAD^+
Electroreduction of NAD^+ to enzymatically active NADH at poly(neutral red) modified electrodes (Karyakin et al.) 179
NADH regeneration
Electroreduction of NAD^+ to enzymatically active NADH at poly(neutral red) modified electrodes (Karyakin et al.) 179
NAD^+ model compound
Investigation of the reduction mechanism of the NAD^+ model compound *N'*-methyl nicotinamide on mercury electrodes in strongly acidic solutions (Prieto et al.) 135
Nafion® electrolyte
Experimental analysis of water behavior in Nafion® electrolyte under fuel cell operation (Watanabe et al.) 239
Neutral red
Electroreduction of NAD^+ to enzymatically active NADH at poly(neutral red) modified electrodes (Karyakin et al.) 179
N'-methyl nicotinamide
ED mechanisms: electrodimerization of *N'*-methyl nicotinamide on mercury electrodes in aqueous solutions (Angulo et al.) 141
Nonlinear kinetics
Potential oscillations during methanol oxidation at Pt-electrodes. Part 1: experimental conditions (Krausa, Vielstich) 7

Oligonaphthylamine films
Synthesis and characterization of oligonaphthylamines (Schmitz, Euler) 47
Oligothiophenes
Cyclic voltammetry and differential cyclic voltabsorptometry of soluble oligothiophenes: evidence for a four-fold charged π-dimer in duodecithiophene (Nessakh et al.) 97
On line mass spectrometry
Potential oscillations during methanol oxidation at Pt-electrodes. Part 1: experimental conditions (Krausa, Vielstich) 7
Oxygen
Oxygen reduction on iron. Part VII. Temperature dependence of oxygen reduction on passivated iron in alkaline solutions (Gojković et al.) 127

Palladium
Specific features of hydrogen sorption by palladium dispersed forms at α-phase potentials (Podlovchenko et al.) 21
Percolation
Impedance analysis of graphite + polyethylene and graphite + epoxy composite electrodes (Navarro-Laboulais et al.) 115
α-Phase potentials
Specific features of hydrogen sorption by palladium dispersed forms at α-phase potentials (Podlovchenko et al.) 21
Photoelectrochemistry
Iron/sulphur centre mediated photoinduced charge transfer at (100) oriented pyrite surfaces (Abd El-Halim et al.) 29
Photoelectrochemical study of potentiodynamically anodized H_2-reduced $PbTiO_3$ + PbO mixed-oxide electrode in 0.1 M NaOH + 0.1 M Na_2SO_4 (Murali Krishna et al.) 53
Platinum
Chemical pretreatment of platinum by aromatic and aliphatic thiols. Effect on polybithiophene electrodeposition and properties (Mekhalif et al.) 61
Platinum plating
Studies of platinum electroplating baths. Part III. The electrochemistry of $Pt(NH_3)_{4-x}(H_2O)_x^{2+}$ and $PtCl_{4-x}(H_2O)_x^{(2-x)-}$ (Gregory et al.) 105
Polarography
ED mechanisms: electrodimerization of *N'*-methyl nicotinamide on mercury electrodes in aqueous solutions (Angulo et al.) 141
Poly(*N*-vinylcarbazole)
Study of laser–electrochemical doping of poly(*N*-vinylcarbazole) (Li et al.) 79
Potential oscillations
Potential oscillations during methanol oxidation at Pt-electrodes. Part 1: experimental conditions (Krausa, Vielstich) 7
Potentiodynamic anodization
Photoelectrochemical study of potentiodynamically anodized H_2-reduced $PbTiO_3$ + PbO mixed-oxide electrode in 0.1 M NaOH + 0.1 M Na_2SO_4 (Murali Krishna et al.) 53
Potentiostatic current oscillations
Experimental and theoretical description of potentiostatic current oscillations during H_2 oxidation (Wolf et al.) 185
Product selectivity
Compared selectivities of redox-catalyzed and direct electrochemical processes. Part 1. Reactions in which product selection involves competition between dimerization and first-order reactions (Savéant et al.) 157
Propranolol hydrochloride
Conductance behaviour of pyridoxine hydrochloride and propranolol hydrochloride in dimethylsulphoxide + water at 25°C (Srivastava, Shivdas) 235
Pt(II) complexes
Studies of platinum electroplating baths. Part III. The electrochemistry of $Pt(NH_3)_{4-x}(H_2O)_x^{2+}$ and $PtCl_{4-x}(H_2O)_x^{(2-x)-}$ (Gregory et al.) 105
Pyridoxine hydrochloride
Conductance behaviour of pyridoxine hydrochloride and propranolol hydrochloride in dimethylsulphoxide + water at 25°C (Srivastava, Shivdas) 235
Pyrite
Iron/sulphur centre mediated photoinduced charge transfer at (100) oriented pyrite surfaces (Abd El-Halim et al.) 29
Pyrolytic graphite
STM investigation of HOPG superperiodic features caused by electrochemical pretreatment (Zhang, Wang) 83

Reaction mechanisms
Choice of experimental method induced by structural properties of mechanisms (Berthier et al.) 1
Redox-catalysed processes
Compared selectivities of redox-catalyzed and direct electrochemical processes. Part 1. Reactions in which product selection involves competition between dimerization and first-order reactions (Savéant et al.) 157
Redox potential
pH-Dependent redox behaviour of asymmetric viologens (De Lacey, Fernández) 163
Redox reactions
Simple redox reactions studied below the melting point of congruently melting electrolyte: $(C_4H_9)_4NF \cdot 32H_2O$ (Opallo) 169
Reduction
Oxygen reduction on iron. Part VII. Temperature dependence of oxygen reduction on passivated iron in alkaline solutions (Gojković et al.) 127

Investigation of reduction reaction of 2-aminocyclopentene-1-dithiocarboxylic acid and its derivatives at mercury electrodes (Fotouhi et al.) 229
Reduction mechanism
Investigation of the reduction mechanism of the NAD^+ model compound *N'*-methyl nicotinamide on mercury electrodes in strongly acidic solutions (Prieto et al.) 135
Reduction mechanisms
ED mechanisms: electrodimerization of *N'*-methyl nicotinamide on mercury electrodes in aqueous solutions (Angulo et al.) 141

Silver surfaces
Kinetics of chloride ion adsorption and the mechanism of AgCl layer formation on the (111), (100) and (110) faces of silver (Jović et al.) 197
Sodium sulfate
Electrodeposition of copper in quasi-two dimensions from solutions containing sodium sulfate (Atchison et al.) 71
Solar cells
Photoelectrochemical study of potentiodynamically anodized H_2-reduced $PbTiO_3$ + PbO mixed-oxide electrode in 0.1 M NaOH + 0.1 M Na_2SO_4 (Murali Krishna et al.) 53
Solid electrolytes
Simple redox reactions studied below the melting point of congruently melting electrolyte: $(C_4H_9)_4NF \cdot 32H_2O$ (Opallo) 169
Solvent properties
Conductance behaviour of pyridoxine hydrochloride and propranolol hydrochloride in dimethylsulphoxide + water at 25°C (Srivastava, Shivdas) 235
Sonoelectrochemistry
Sonoelectrochemistry: transient cavitation in acetonitrile in the neighbourhood of a polarized electrode (Klima et al.) 147
Structural properties
Choice of experimental method induced by structural properties of mechanisms (Berthier et al.) 1
Sulfonate surfactants
Studies on adsorption behavior of sulfonate surfactants on a lead electrode in sulfuric acid (Shi et al.) 213
Sulfuric acid
Studies on adsorption behavior of sulfonate surfactants on a lead electrode in sulfuric acid (Shi et al.) 213
Superperiodicity
STM investigation of HOPG superperiodic features caused by electrochemical pretreatment (Zhang, Wang) 83
Surface analysis
Photoelectrochemical study of potentiodynamically anodized H_2-reduced $PbTiO_3$ + PbO mixed-oxide electrode in 0.1 M NaOH + 0.1 M Na_2SO_4 (Murali Krishna et al.) 53
Surface diffusion
Surface diffusion limited desorption of iodine on a platinum electrode? (Thomas, Wieckowski) 207
Surface electrochemistry
Iron/sulphur centre mediated photoinduced charge transfer at (100) oriented pyrite surfaces (Abd El-Halim et al.) 29
Surface morphology
Electrodeposition of copper in quasi-two dimensions from solutions containing sodium sulfate (Atchison et al.) 71
Surface topography
STM investigation of HOPG superperiodic features caused by electrochemical pretreatment (Zhang, Wang) 83
Surface transport
Surface diffusion limited desorption of iodine on a platinum electrode? (Thomas, Wieckowski) 207

Thiols
Chemical pretreatment of platinum by aromatic and aliphatic thiols. Effect on polybithiophene electrodeposition and properties (Mekhalif et al.) 61

Ultramicroelectrodes
Simple redox reactions studied below the melting point of congruently melting electrolyte: $(C_4H_9)_4NF \cdot 32H_2O$ (Opallo) 169

Volmer-Heyrovsky mechanism
Choice of experimental method induced by structural properties of mechanisms (Berthier et al.) 1
Voltammetry
ED mechanisms: electrodimerization of *N'*-methyl nicotinamide on mercury electrodes in aqueous solutions (Angulo et al.) 141
Surface diffusion limited desorption of iodine on a platinum electrode? (Thomas, Wieckowski) 207

Walden products
Conductance behaviour of pyridoxine hydrochloride and propranolol hydrochloride in dimethylsulphoxide + water at 25°C (Srivastava, Shivdas) 235